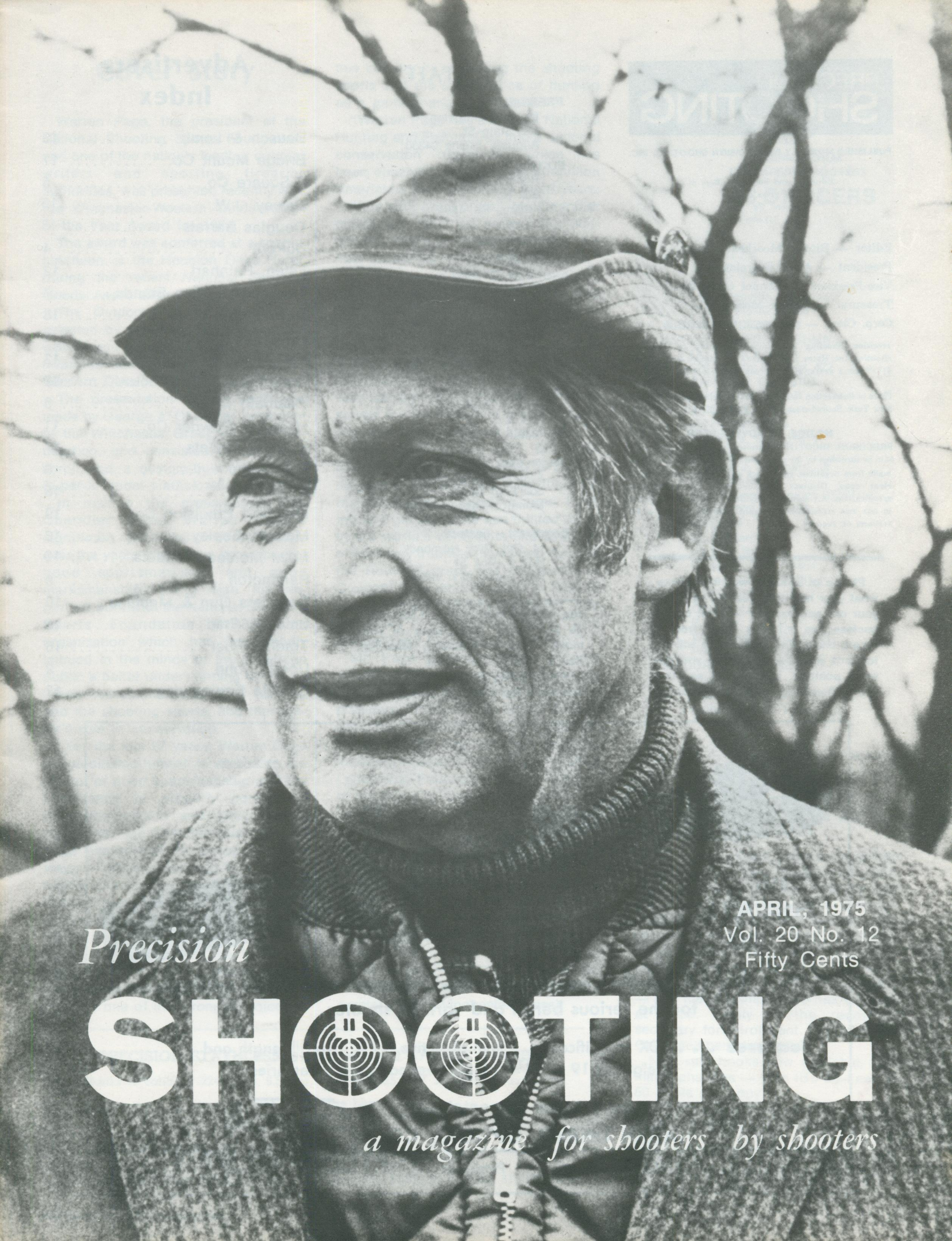

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a magazine for shooters by shooters

PRECISION
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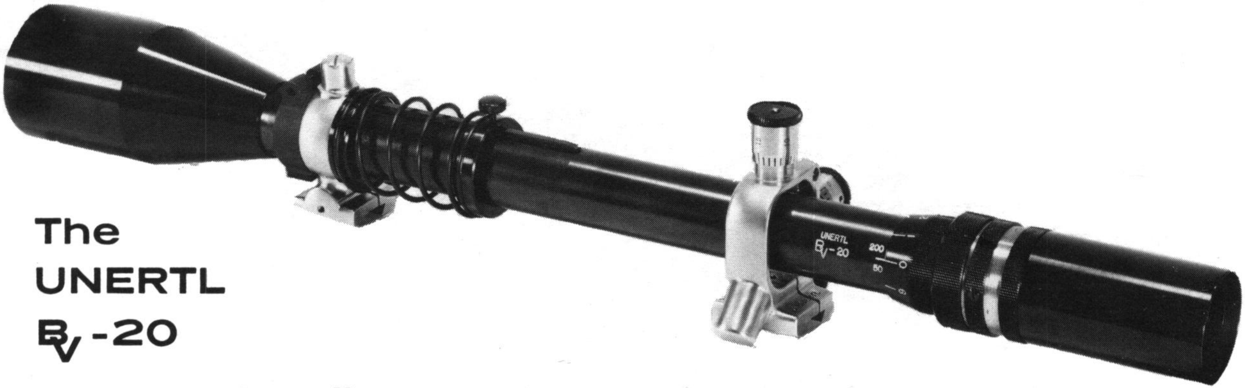

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Cover Story

Warren Page, the president of the National Shooting Sports Foundation, and one of the nation's leading outdoor writers and sporting firearms authorities, was presented recently with the Winchester-Western Outdoorsman of the Year Award for 1974.

The award was conferred at a special luncheon at the Houston Oaks Hotel, during the recent National Sporting Goods Association Show in Houston.

The Outdoorsman of the Year is selected by a national poll of outdoor writers and conservationsists, and the award is donated by the Winchester-Western Division of Olin Corporation.

The presentation to Mr. Page was made by George A. Chandler, president of the Winchester Group of Olin Corporation, and consisted of an award scroll and a custom-built Winchester Super-X Model 1 autoloading shotgun.

In making the presentation, Mr. Chandler cited Warren Page's significant journalistic contributions over the years toward the promotion of good sportsmanship and good marksmanship, along with his important work with the National Shooting Sports Foundation (NSSF), an organization which has successfully imbued in the minds of the American public a better understanding of the intrinsic recreational values of hunting and the shooting sports, and the hunter's role in conservation.

"For the last 27 years, Warren Page has dedicated himself to spreading the gospel of good sportsmanship and the importance of properly conserving America's wildlife and other natural resources," Mr. Chandler said. "Warren Page has spread the gospel in many ways — not only through hundreds of highly informative and entertaining magazine articles, speaking engagements and dedicated work with many conservation groups, but also through his work with the NSSF, an organization which he almost single-handedly brought into being, and which is today one of the strongest voices in this country in promoting the shooting sports and the significance of hunting as a game management tool.

"Warren Page has also built National Hunting and Fishing Day into a national conservation 'happening' which has been observed by more than 40-million Americans during the past three years.

"It is with great pride," Mr. Chandler concluded, "that we present the Winchester-Western Outdoorsman of the Year Award for 1974 to Warren Page."

Mr. Page was born in New Bedford, Mass., on Jan. 14, 1910. He graduated cum laude from Harvard University in 1931 with a B.S. degree in English, and went on to teach English at the Los Alamos Ranch School in New Mexico and later at the Lawrenceville School in New Jersey. During World War II he served for four years in the U.S. Navy and earned the rank of Lieutenant.

From 1947 through 1971, Mr. Page was shooting editor of Field & Stream magazine and authored more than 450 major articles on sporting arms, hunting and ballistics. He has hunted on all of the world's continents and some 30 of his many trophies have been listed in the Rowland Ward and the Boone & Crockett Club record books. In 1958 he received the Weatherby Award for "outstanding sportsmanship and achievement in big game hunting."

Mr. Page has been active in conservation organizations for many years. He is a founding director and currently president of the African Safari Club of New York, a director and ex-president of the Camp Fire Club of America, founding trustee of the African Wildlife Leadership Foundation and a member of the board of Game Conservation International, to mention but a few of his affiliations.

A keen competitive shooter, Mr. Page has won nine national championships in accuracy rifle matches under NBRSA and IBS rules. He has also been directly involved in the development of several popular rifle cartridges. Mr. Page is the author of two recently published books: "One Man's Wilderness" (Holt, Rinehart & Winston) and "The Accurate Rifle" (Winchester Press).

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"The Editor's Hour"

Our cover for February featured Mike Walker and his retirement from Remington Arms Co. Mike wrote to inform me that his party was a success and that he enjoyed all of the activities planned on his behalf. He also informed me that he had joined the Remington organization in 1942 rather than 1948 as stated in the cover story. That makes his total work effort on their behalf almost 33 years.

* * *

Mix-ups have a way of happening when we least expect them. If you renewed during the month of December and did not receive a January issue of Precision Shooting please contact me and I will see that you receive yours. The problem was corrected at the printing plant but some of you have missed that issue. You have been entered into the address file in the correct order now and should have received February and March issues.

* * *

A situation is raising its ugly head in Washington, D.C. and if we, as shooters, are not extremely quick and active we may find ourselves in for the start of a sequence that will rob us of the very means for conducting our hobby. I am speaking of ammunition. If some present proposals, which were not entirely clear enough to report on last month, are acted upon in that Watergate-oriented madhouse we will sit by and watch our handgunning friends dry up and wither on the vine as their supply of ammunition is taken away from them because it is unsafe.

It appears that somehow or other we have, in Washington, an organization which is the Consumer Product Safety Commission. As I understand it this is a watchdog organization with enough power to remove from the American marketplace any item that it feels to be unsafe to the consumer. To date they have been concerned with detergents, sprays, solutions and many other items which do contain damaging ingredients. Our local hospital has a man who works for this organization and he reports back on the causes of accidents which involve consumer products so that these products can be made safer. That is good.

Last summer this commission was approached by the Committee for Handgun Control, a Chicago based anti-gun group, to consider a ban of handgun ammunition as unsafe. The Commission stated that they felt this to be out of their realm and they refused to consider the request.

The Committee for Handgun Control took the matter to U.S. District Court and Judge Thomas J. Flannery ruled that the Commission must now commence consideration of this request.

After a lot of foot dragging and inaccurate data the commission finally came out with a statement relative to the procedure to be used. What went on prior to that announcement is worth knowing so that the nature of the commission is fully understood.

At first the commission apparently tried to keep the ruling quiet and away from general knowledge. Finally word got out that they were conducting a public opinion poll and calls would be taken on the ban proposal. As soon as sportsmen and shooters got word of the ban the phone lines jammed and the phone poll was stopped. It almost makes one think that the phone poll was for the anti-only groups and the rest of us were not being asked.

Several people have taken time to reveal to me that those who answered the phone on the commission and expressed surprise that anyone would be against the ban and even tried to influence the opinion, and vote of the caller. All this from a commission which was just supposed to be taking a poll.

Upon the termination of the phone poll it appeared that the poll would run for 30 days from the time of its announcement and shooters would have till February 15 to cast their opinion. The proposed item was going to be published in the Federal Register, which makes it known, (How many have ready access to the Federal Register?) and the replies would have a month to come in. Supposedly the opinions would influence the decision of the commission.

As things turned out the Federal Register did not contain the announcement till February 14 and the deadline for replies was set at April 14.

All sportsmen, and interested parties, are urged to write to the Secretary, Consumer Product Safety Commission, Box 8137, Washington, D.C., 20024 and express their opinions. **Five copies** of the letters and accompanying information or materials are requested.

Supposedly the commission will

review the opinions and make their decision with the tally of opinions as a base.
(Ed. Note: 3-17-75 — The March 21 issue of Gun Week reveals that the CPSC has submitted a request to the Senate Commerce Committee asking for legislation reducing the authority over firearms and cigarettes. It would appear that we are winning this one.)

The urgency of this thing cannot be adequately described in a few paragraphs such as this column allows but it is certain that if this thing is successful we may just be seeing the end of shooting sports in general. For those who feel that this cannot happen in America may I refer you to the letter in this issue from Peter William Taylor, our English friend.

Initially we may feel safe with our rifles or shotguns and feel that we can give up handguns for we do not use them, or use them in a limited way. I've got news for you! We all must join hands now and fight this thing for they will be able to pick us off one by one if we do not unite. For once in the history of the shooting sports we must all take each other in tow and pull together for the survival of one of the shooting sports or we are likely to see the destruction of all of them.

Like so much of the Washington scene today, the anti-gun forces are made up of people who are trying to feather their own nest at the expense of others. They are trying to legislate morality rather than to solve problems. For the most part these people are well-educated, financially well oiled, influential, impressive and **MISINFORMED.** Regretfully our political climate today allows, yes even perpetuates, such activity to exist at all levels. We have almost reached a point of complete distrust in anything that is Washington oriented or government related.

The following letter from the NRA to its members reveals part of the situation. If after reading the preceding information and the letter from the NRA you do not feel a deepening sense of fear perhaps you had better read it again for you missed something. Upon completion of that reading please act now and write to the Consumer Product Safety Commission with your opinion. A copy to your elected officials in Washington will also be of value for we still have a few of them who are trying to do a good job in the face of chaos. Perhaps next month we will be able to report on the death of this proposal.

IN THE NATION'S CAPITAL . . . GUN REGISTRATION/CONFISCATION

WASHINGTON, D.C. — "The National Rifle Association has been on record for many years contending that firearms registration was just the first step in the process leading to total confiscation," said NRA Executive Vice-President Maxwell E. Rich, "and we are seeing this happen in the most graphic fashion here in the Nation's Capital."

General Rich, the head of the million-member sportsmen's organization was speaking of a recent move by a District of Columbia councilmember to amend the Washington Metropolitan Police regulations in an attempt to seize 51,645 privately-owned and legally registered firearms. The proposal would allow private citizens rifles only and ownership would come after police approval and the issuing of a license.

"Law abiding members of the Washington community have complied with local law, they have registered their privately-owned firearms, they have appeared at the police station with their firearms and they have been duped," Rich said of the proposed amendment.

"Once again it is the law abiding firearms owner who has come under attack. As the National Rifle Association has been pointing out for many years, it's the criminal who misuses the rights and neglects the responsibilities of private firearms ownership. But the honest citizen pays the price," the NRA executive vice-president said today.

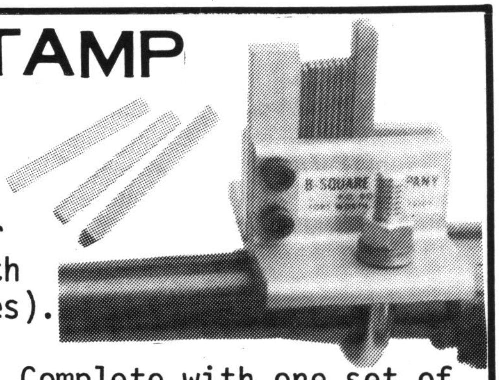
Of the 51,645 firearms that have been registered in the District of Columbia only 16 or roughly one-half of one percent were used during 1974 to commit a crime. These statistics were provided by the Metropolitan Police Department.

"We have asked for laws aimed at the criminal, we have asked for mandatory penalties for the use of firearms in the commission of a crime, we have asked for enforcement of the thousands of laws on the books, we have asked for an end to plea bargaining in crimes of violence, we have asked that firearms be kept out of the hands of convicted felons, drug addicts, habitual drunkards, fugitives from justice, mental incompetents and juvenile deliquents," Rich said of the NRA's continuing efforts for crime control. "But what do we get? Repeated attempts to regulate the honest law abiding citizen.

"The issue here is crime control and I would like to see some positive action by our lawmakers to get the criminal off the street. I think the American public is sick and tired of hearing time after time that another criminal is out on bond without serving any time for committing a crime with a firearm," Rich added.

"There is a national trend by some lawmakers to pass additional legislation aimed at the law abiding, firearms-owning public, rather than facing the misdeeds of the criminals who use firearms in the commision of a crime. Let's enforce the laws we now have on the books and let's get the criminals off the streets and behind bars where they belong," Rich concluded.

(Next Page Please)



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The following letter from Peter William Taylor outlines the progress of the British Bench Rest Shooters Association.

Although the news is sad it is printed with an eye to expressing our best wishes to this group of fine shooters. Not to be overlooked is the message that rings loud from between the lines of this letter. If we do not take adequate steps to encounter the present attitudes in this country the future may bring a letter such as this to the attention of others as we explain away the fact that we have lost our freedoms.

Do not for one minute think that it is impossible for there are those among us who would take the same actions on this side of the sea. Read this with a heavy heart for their loss, and with a fear that we may be next.

INTERNATIONAL CORRESPONDENCE FROM ENGLAND

63 Islay Road
Sinfin Moor
Derby, England

5th February 1975

To: Lt. Col. Rick Hornbeck, U.S.A.
Mr. George Wachmann, Canada
Mr. Harry Madden, Australia

Gentlemen,

No doubt by now many of you and your members will be wondering if the British Benchrest Shooters Association ever existed and in all probability have given us up as a lost cause.

You have all made every effort to help us by keeping us informed of your activities over the past couple of years or so, but quite frankly the only noteworthy event which we have considered justifiable to mention was our maiden attempt at international postal shooting in 1973 which we reported on some twelve months ago. We feel very guilty of not having reciprocated your kindness.

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You may recall that we mustered a following of interested participants to represent the U.K. in the 1973 postals, but we didn't fare too well nor did we expect to when considering our circumstances and the fact that it was our first exposure to competitive shooting as a team. So we organized ourselves for the 1974 postals with a determination to improve our facilities and performance. For the 1973 events we arranged to use the facilities of a local shooting club which had a government approved open air one hundred yard range situated smack in the middle of a nature reserve. The club and the wildlife naturalists have enjoyed a coexistence for many years and the understanding has been that the club will only use the range on Tuesday evenings, Saturday afternoons and Sunday mornings till noon. Usually, Sunday morning was when the pseudo gun slinger types vented their wrath on tin cans, etc. following which the so called 'bench rest' contingency would be permitted to set up their variety of makeshift benches and proceed to defy generally inclement weather and shoot for sub minute of angle groups to the amazement of the onlookers. Invariably it would be past noon before the last tin can had 'bit the dust' and we had to get cleared away and evacuate the area by 2.0 pm so as you will appreciate, the bench resters were the poor relatives.

Surprisingly these circumstances did not appear to affect the initial enthusiasm of the nucleus of the bench resters even though we were all fully paid up members of the club and week after week the competitive spirit was demonstrated in some small but significant way. New equipment, be it a modified shooting bench or modified sporting rifle, would appear on the scene and the proud owner would set up his equipment with as much attention to detail as he would if he was competing in a 'super shoot'.

It had been pre-arranged with the club committee that for the 1973 postal one hundred event, we would be allocated a whole morning in which to shoot our cards. The two hundred yard event was a complete washout with high winds gusting in all directions due to the unsuitability of the terrain on which the range is situated. But we had 'Hobsons Choice' on the matter because this was the only range with 200 yard (and more) facility that we could acquire which has government approval for centre-fire rifles. Not only was it impossible to have a steady hold on the rifle, one was preoccupied in wondering whether the next gust of wind was to be the one which blew the top off our frail portable benches. However, we had an enjoyable day which is what shooting is all about, but unfortunately the team was disqualified in the two hundred yard event due to one shot to count which completely missed the card. One very amusing incident which occured during the proceedings was when we were threatened by a farmer that he was about to fetch the police because we had accessed the range via his property, we avoided legal prosecution by dipping into our pockets and 'settling out of court'.

Subsequent to the 1973 postals, we arranged a general meeting and revised our organizational structure by electing a chairman and a U.K. secretary with myself remaining as treasurer and International secretary. Business pressures have made it necessary for myself to play a less active part in the running of our group and to compound this situation our resources have taken a turn for the worst. It would appear that the ladies amongst the ranks of the wildlife naturalists have deemed that the presence of the one hundred yard rifle range is no longer compatible with the success of the nature reserve, consequently the authorities see this as an opportunity to reduce the number of firearms in circulation so notice has been served that the club must seek alternative accommodation to continue their activities, which also puts us out on a limb. The irony of it all is that it is my understanding that the rifle range was established within this environment long before it was a nature reserve.

We managed to shoot the one hundred yard postal event for 1974 but the two hundred was a complete shambles with several cards disqualified. Unfortunately there has now emerged an element of apathy amongst our membership, but who can wonder when one considers what has happened to discourage the enthusiast for in addition to the foregoing we are also faced with all kinds of shortages.

Powder is almost unobtainable, had it not been that one of our members had a personal stock, no benchrest shooting would have been possible at all. No U.S. or Norma powders are sold in the U.K. and the only powder that is available to us is Nobel at equivalent to $11.60 per lb. Don't overlook the fact that the current national hourly wage in the U.K. is equivalent to $3.30, but the majority of our members are earning little more than $2.75. Nobel powders are available in the U.S. from Herter's and are labelled 'Herter's Model Perfect Rifle Powder', so you may be interested to compare the prices of the same product in the 'States to what it is in the country of origin and don't forget that it has travelled more than three thousand miles to get onto the U.S. market. One could be forgiven for suspecting government interferences with the supplies on the home market.

We managed to acquire two thousand Remington benchrest bullets which were distributed amongst the team members, but by the time suitable loads had been developed and some practice shooting completed, this brand of bullet became very scarce indeed. In fact we have not been able to obtain further supplies since. Sierra bullets were available but to start from square one was not possible because we didn't have sufficient time at our disposal. It was almost match time when we found that Remington bullets were in short supply and unobtainable over here.

Primers are also a problem, these are almost unobtainable and the price is now $28.80 per thousand and again a private stock is responsible for any continuity of interest.

The British Benchrest Shooters Association is grinding slowly to a halt and it has already been suggested by one of the senior members that a proposition be made to wind up the proceedings as a representative national body and concentrate on local participation in an attempt to retain what little interest there is left. Several half-hearted attempts have been made to stimulate the enthusiasm of the founder membership, but so far there hasn't even been sufficient interest shown to get together for a meeting to discuss our intentions.

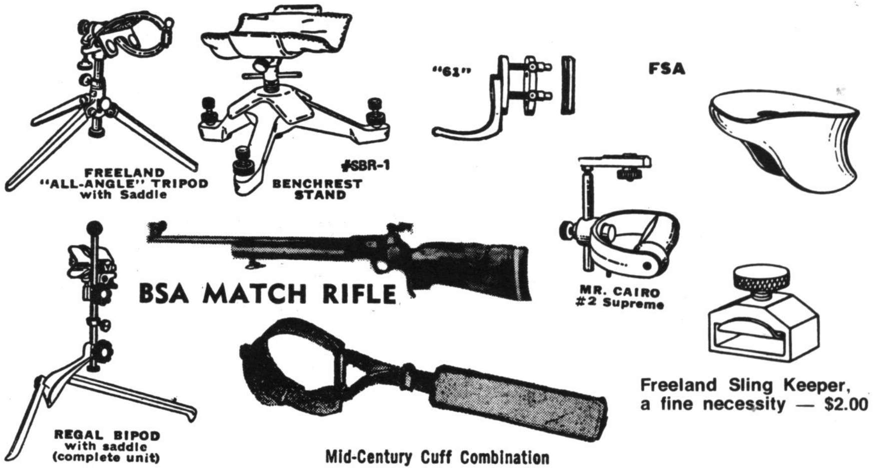
The firearms legislation in the U.K. does nothing to encourage an interested party to acquire for himself suitable equipment for benchrest shooting. No doubt most of you by now have heard of our governments infamous 'green paper' on firearms which is doing the rounds in our House of Parliament to restrict even further the activities of the shooting public. The facts are that no matter what the government in it's wisdom decides to impose by way of further restrictions on firearms ownership, the criminal gun handler is not likely to ask for police permission to use firearms, so the only section of the public who will be affected by such restrictions will be those law abiding individuals who want to pursue shooting in one form or another as a pastime, hobby or livelihood. In the U.K. we have the most restrictive gun laws in the world and yet our armed crime rate is as bad as or even worse in a lot of cases, than many other countires. (Anti-gun forces in America would have us believe otherwise. R.R.M.)

We hope that the foregoing has not belaboured you too much with our problems, but having lived in Canada for several years and sampled the pleasures of organized benchrest shooting in North America we hope that the contents of this letter will encourage you all to appreciate even more so the facilities and freedoms that you have at your disposal in your respective countries. (Amen! Need we be reminded of this in the present climate?)

Our very best wishes to you all, for the British Benchrest Shooters Assoc.

Peter Wm. Taylor
I.B.S. Director

FOR THE SHOOTER BY A SHOOTER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Technical Column

M.H. Walker
Technical Editor
R.D. 1, Warren Road
Mohawk, N.Y. 13407

LOADING FOR BEST ACCURACY

When a novice bench rest shooter starts to study all of the possible steps one can take in precision loading of super accurate ammunition, it is most confusing.

We are almost convinced if you performed every possible technique, you would have so much tender loving care into that round, you would refuse to shoot it.

My request, Mr. Walker, is a list, in order of their importance, of the extra steps bench rest shooters take in reloading, and some information on the steps one should take to reach various levels of perfection.

Dick Sinclair
2833 Torchlight Lane
Lincoln, Nebraska 68521

The bullet is the most important item a handloader uses in obtaining superior accuracy. Infallible methods of inspecting bullets prior to shooting have not been developed, at least for everyday use. Many shooters use a .0001″ dial gauge to dial the eccentricity of the bullet heel with bullet body. This requires a fixture with female centers for the point of the bullet and the heel. The angle used in these female centers is important. The intent, not always achieved, is to determine lack of uniformity of the corner of the heel leaving the barrel last. Logic tells us that a bullet base which is skewed or nicked badly or has a non uniform radius at the base corner will have non uniform forces applied to the base as it leaves the muzzle. This logic is born out in practice.

If dialing is to mean anything in practice, the angle holding the heel of the bullet must locate on that corner leaving the barrel last and not some other point. This requires a quite shallow angle of 30° included or less. The value of dialing is limited to a degree because of the other variables. We may select bullets by dialing which run out no more than say .0003″ or less and find that they do not shoot as well as expected.

Bullet jackets may have reasonably uniform wall thickness at the base, say a maximum of .0003″ difference, but the wall variation after leaving the base area can and usually does get steadily worse. A bullet made from a jacket with uniformity at the base and poor uniformity otherwise will ordinarily shoot poorly but the dialing may show no runout. The converse may also be true. Out of round bullets are not necessarily poor shooters; nevertheless the dialing will show runout equivalent to the out of roundness. Logic must be used again here. The gas pressure of say 50,000 p.s.i. applies a force of approximately 2000 lbs. to the base of a .224″ diameter bullet. Logic would tell us that 0.1 or 0.2% out of roundness, if there were no other problems, would easily be overcome by this force. Yet .02% is over .0004″ on the dial gauge.

Another inspection point on bullets is overall length. We need to be careful here also. Most of the bullets used by bench rest shooters are open point with the mouth of the jacket pointed up to include a cavity. The result is that the points may be ragged enough to limit the value of measuring overall length. Bullets which are non uniform in length by as much as .015″ will not usually be uniform in diameter. Diameter uniformity is important, but measuring diameter with standard .0001″ micrometers is an extremely difficult job limited to a few very skilled tool makers. I've been using micrometers for forty years and I am unable to select bullets for diameter with micrometers. My choice is to measure length and hold them within .005″.

After all is said and done, buy the bullets that give the best shooting results and you have the bullet problem licked.

The next most important item is the case. We don't have all the answers on this either. In the past, many shooters selected their cases by weight. This is losing favor now as it seems to have very little bearing on accuracy as long as the cases are all from the same lot. No bench rest shooter would think of mixing cases from different lots.

Neck wall thickness and variation in thickness seems to be of some importance, although the proof of this is not straightforward and easy. We do know, however, that misalignment of the bullet with the case body by as much as .007″ or .008″ will generally give poor results, especially if the bullets are not seated to touch the lands. In order to get good bullet alignment a uniform case neck wall is desirable. Wall thickness within .001″ seems to be a usable limit. On most cases reaming with a special setup or outside turning is required to attain this uniformity. Special tools for this purpose are available from various manufacturers. In the process of doing this the neck walls are reduced in thickness. Special precautions are

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necessary to avoid reducing the thickness more than will be sized properly by the sizing die. A reduction in thickness to about .010″ to .0105″ is usually satisfactory. This reduction is theoretically desirable from two standpoints. One: most sizing dies tend to size the neck too much causing excessive cold working of the brass and early loss due to cracking; two: the reduction in neck tension which accrues is desirable. Having too much neck tension does tend to size the bullets to a smaller diameter as well as apply excessive forces to the bullet which are probably less uniform than necks with thin walls.

When cases are all arranged mouth down in the loading block it is easy to inspect for uniform flash holes visually. Most shooters do this as a precaution even though no proof is available as to its advantage.

Probably the next most important items are the loading dies and tools. Many shooters use hand dies with a small press or a hammer in order to attain what they feel is more perfect alignment. Standard reloading presses with threaded dies tend toward misalignment between the ram and the die. I use them because I prefer the sizing of the inside of the neck over the sizing plug to no internal sizing when using hand tools. Nevertheless both methods are successful in the hands of skilled handloaders and shooters. If a standard press is used, checking the alignment is desirable. This can be done by smoking a case and progressively seating it deeper into the die, inspecting for rub marks indicating an off center condition. Sizing of the case neck is usually what causes misalignment of the bullet and case body. The bullet should be just held by the case with no extra tension. Excessive tension will usually cause misalignment as well as other problems mentioned previously. It is sometimes necessary to open up the neck portion of the neck sizing die with emery cloth to attain the desired tension. Case necks should definitely be chamfered inside and outside. The inside chamfering assists in seating the bullet without shaving or deformation of the base. Outside chamfering assists in lining up the case neck as it enters the sizing die.

The end result of all these efforts should give bullet and case body alignment within .002″. If you have no method of checking this, roll the loaded round on a smooth surface and you can see .002″ runout on the bullet point.

The remainder of your efforts should be involved with attaining really scientific data regarding your powder loads, primers and seating depths. Keep a record of every shot fired with notes on why what happened did happen.

Develop the habit of dumping all powder charges into the cases before seating the bullets. Examine the powder charges in the cases while they are all sitting at the same level in the loading block. It's easy to spot a bad charge visually under these circumstances. You would be surprised how many casualties can be avoided this way. Some of my bench rest shooting friends fail to do this and end up on the line with the wrong powder in the cases or no powder in one case or an over or under charge causing either a bad shot or worse yet a case failure requiring at least a cleaning rod to remove it.

Seating depth is important and usually depends on the load being use. It can vary from clearing the lands by as much as .040″ to seating hard against the lands. This is something you need to determine for yourself.

Don't draw conclusions from one shooting session. Develop a doubtful, scientific, show me attitiude.

M. H. W.

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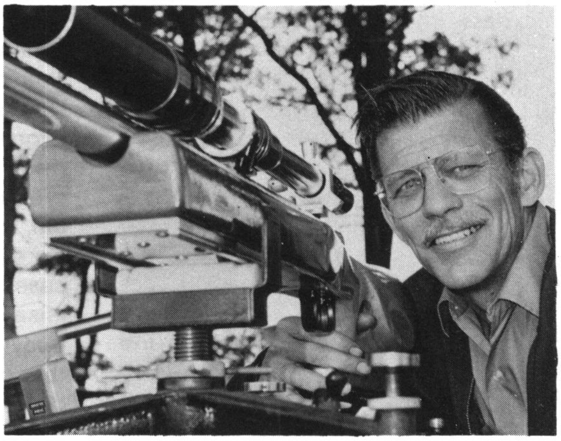

by Lt. Col. Rick Hornbeck
R.D. 1, Box 51
Pine Bush, N.Y. 12566

WHICH SCOPE IS BEST?

A letter from Ohio asks, "What is your opinion of increasing the power of a BV-20 or Lyman LWBR 20 to 25X or 30X as Mr. Siebert does?". From Georgia, another asks: "I have a Unertl 20X and am thinking about having Unertl increase the power to 30X. Would you go that high?". And still another from Canada says "I have a Lyman which I can't see well through and want to get another scope. What make and power do you recommend?"

This subject comes up a lot in our mail. And it's not an easy subject to deal with for a number of reasons. We will look at some of these reasons, and how one may come up with a scope that does what the shooter wants. A good scope represents a major outlay of cash and it's a real kick in the head when the scope doesn't do the job. In an attempt to salvage the scope, there is a trend to go for a higher power which will, hopefully, correct the situation and increase what we can see. There are a number of factors to be considered and understood so that we get a scope which is right for us; while at the same time understanding there are limitations.

Right off the bat we had best understand that an increase in power cuts down the amount of light that comes through to the eye. On a dark day, in rain or snow, fog or haze a rather high power scope may be hard to use with much success. Another important factor is that we cut down on the size of the exit pupil of the scope with each increase in power. A 20X scope has an exit pupil one half the size of a 10X. So we must have our eye critically located for a full field view. Finally, the scope is more difficult to adjust for individual eyes and parallax as the power goes up. Yet, with all these limitations, we can have an increase in power because we can live with these limitations and get the optical performance we are looking for.

Let's look at each of these factors. First, the proper adjustment of the scope for the individual. This factor causes many shooters to be unhappy with a scope. The eye is a very flexible and remarkable organ and adjusts quite well to improperly adjusted lens systems. Assuming we have normal eyes, a young set will adjust with little or no difficulty while those of us who have a few miles on us or lack perfect eyesight notice a poorly adjusted scope very quickly. The eye cannot use more than 12X to see perfectly. We cannot detect any more detail with 20 or 25X than with 12X. We are talking about definition, not magnification.

Most surely we can see small detail on the target such as small print at 100 yards with a 20X and may not with a 12X, but move the target to 50 yards, and the 12X will show up the small print very nicely and in every case it will be sharper to the eye (definition) than 20X at 100 yards. We get more light (brightness) through the scope at 12X and if there is very much mirage, the 12X is not effected to the degree a 20X is.

Cross hairs that are sharp and clear the moment we look through a scope indicates we have the rear (ocular) lens properly adjusted for **our** eyes. If we get a change in our eyeglass prescription, we may need a small change in the ocular lens adjustment. When the front lens (objective) is perfectly adjusted for parallax at the range we are shooting, we then have all the optical performance that scope can give, assuming that the lenses are clean, haven't got the spray from the bore cleaning brushes all over them and haven't been scratched from improper lens cleaning. Any change in light or mirage magnitude is the only other factor that effects what we can see with that scope.

As the power goes up, the field of view goes down. This is dependent on optical systems and lens size. A Unertl BV-20 has a field of 7 feet, 10 inches at 100 yards, a Lyman LWBR at 20 power gives a field of 5 feet, 6 inches, a Redfield 3200 at 20X has 4 feet, 2 inches. Any increase in power will lower field of view.

As power goes up, the exit pupil gets smaller. It is well etablished that we don't want to apply a great deal of cheek pressure to the stock in bench shooting. Therefore, if we use this light

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cheek pressure technique, we may experience some initial difficulty in getting the full field of view and holding it, until we learn how. It's no big deal, but something we should expect initially, overcome, and learn to live with. We can't damn the scope, it's normal.

Some eyes just don't take to some optical systems. I have had a number of people indicate that they don't see well through a BV-20 for example. I think a BV-20'x optics are great. I guess that's why some of us drive Chevy's and some drive Fords. There is every indication that some people will never be satisfied with some scope's performance while others will. So if we want to have a scope's power increased, we had best be happy with the optics before we have it changed. The idea that we are going to see better with an increase of power for any given scope is the wrong approach in my book.

Wally Siebert's method of increasing scope power is very basic in principle, is positive, adds very little weight to the scope (not over 11/2 ounces, depending on the power increase and scope make), and does not decrease light transmission enough to be detected by the human eye. An achromitic negative lens of proper focal length is placed in the optical system of the scope. Simple to talk about, something else to do. There's a bit more to it than that, such as adjusting the focal length, etc. Wally's workmanship is first rate. He has been a fine addition to those who support bench shooters.

Is 30X better than 20X? Well, that depends. It depends on you, your eyes, personal taste and, most important, your ability to cope with changing range conditions, light and mirage. If you're having trouble with mirage, fighting it rather than using it, an increase in power is going to do one of two things; Make you practice till you overcome the problem of mirage or give you more trouble. Because as the power goes up, you can see and detect more mirage. With a 30X scope, you can detect the slightest mirage regardless of temperature or humidity. Properly understood and used, it can be a help to you. Disregarded or fought, it will cause big groups.

With all the factors discussed, it may sound like a high powered scope is not really a good idea; It ain't necessarily so. Fifteen years ago, 99 percent of the scopes being used in bench matches were 20X and a few old B&L 6-24X's were around. There were a few using 30X and even 36X. Along about mid 60's, higher power scopes started to show up. The majority of the top 20 in the Nationals this past year were using 24X or 30X and the 20X's are losing popularity. The current trend is toward higher power. A few years will tell if this trend is a fad or really a positive factor in getting small groups.

The scopes we are using in bench matches today are fine products. The secrets of lens design and polishing prior to WW II were in the hands of the Germans and a few companies here in the states. After the war, Japan got in the act. Today, all the lenses we are looking through in top quality scopes are being made in Japan. Good thing, too. If things had not changed, the cost of this level of optical quality would cause us to shell out double what we are paying. Take the best scope made prior to WW II and put it next to a target scope today. You wouldn't be caught using the pre-war scope in a match. But stick to the names you know. You may need service, which brings us to a short story.

A friend sent his scope back to the factory, a major name, for cleaning after perhaps 12 years of hard match use. It was returned and he used it a while although it didn't seem as clear as before. The scope went back a second time, and was returned with the same problem. We set this scope next to one of mine of the same make, power and crosshair. What a difference. Mine was clear, his awful. We drove to the factory and low and behold, it was found that his scope had the objective lens in backwards! They went through the scope with a fine tooth comb and he got back a perfect, near new, scope. I'll bet that group at the factory checks out objective lenses now.

It can be seen why we are hard pressed to recommend a make of scope or power. So much depends on individual eyes, how well the shooter has a scope adjusted for eyes and range and his basic shooting technique and experience. There are trends that change each year in make and power used. The only true test is best accomplished by looking through scopes of the same make and power under good and bad light and mirage conditions. In the end, your eyes are going to be the final judge as to which scope is best.

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PRESIDENT'S MESSAGE

At the annual meeting your Board of Directors voted to mandate a cooling off period before making any rule change final. Also that a committee be appointed and, after a trial period, to submit these rules as they will be written in the rule book. The Executive Board will give final approval. The committee members are Clyde Hart, Jim Stekl and Paul Kempfer. These gentlemen certainly have the background and capabilities necessary for this important job.

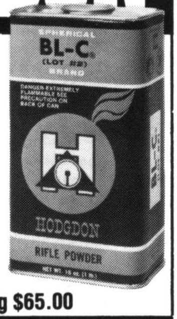
As our present supply of rule books is nearly depleted we are going to print about a years supply of updated rule books. This is not to be mistaken for the new rule book as it will not be printed until it has been brought before at least one annual meeting.

(Ed. Note: The following match will not be held on this date due to unexpected construction problems. Watch this column for the revised match date and help support a fine new club. R.R.M.**)**

Did you know that the Stonewall Rifle & Pistol Club of Staunton, Virginia is holding their first IBS registered tournament on May 3, 4? I understand many of our senior shooters have shot on this range and they say that one trip to Virginia in May and you are hooked, as it is a most beautiful and pleasant time of year there. For further information contact Wilson Fielding, 641 Gypsy Ave., Staunton, Va. 24401.

I am close to convincing my better half that this would be a perfect substitute for that trip to Florida I promised her. (How did I ever promise her that?). We hope to see you at Staunton.

Sincerely,
Jack Deming



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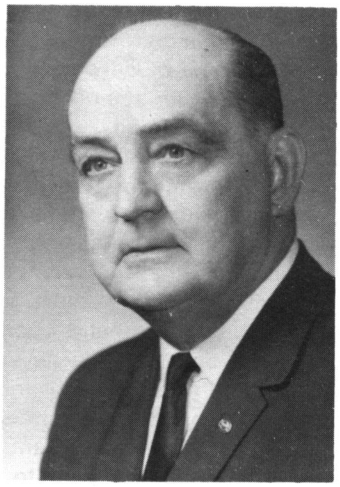

HARRY M. POPE INFORMATION

I have presumedly the complete HARRY M. POPE files of data, invoices, correspondence, etc. These files reveal quite a number of the carbons of the original invoices and letters he wrote to his customers. The greater part of my lifetime I have collected the Pope data, barrel serial numbers, etc. and have approximately 300 numbers of barrels made while he was at Hartford, Connecticut, with J. Stevens Arms & Tool Company, and finally at Jersey City, N.J. A lot of these papers and cards that I have the serial numbers on reveal lost or misplaced false muzzles, and bullet starters. Some show spares of these accessories without a rifle to go with them. I have helped get together a few of these accessories and barrels during the past few years from my cards of serial numbers.

I will be glad to look into these files to see if I can locate anything on your Hartford, Stevens-Pope, or Jersey City Pope barrels and/or spares.

I **MUST** have the following information:

If the rifle is muzzle loader, or breech loader only
Serial number stamped on false muzzle next to the barrel
Serial number stamped or scratched inside the bullet starter
Stampings on the top of the barrel
Stampings underneath the forearm on the barrel
If aluminum, or brass bullet starter
If square, or diamond shaped knurling on the false muzzle
Barrel size, shape, etc.
Action make, model triggers, and serial number.

In order to keep correspondence at a minimum and make a thorough search the above are the minimum requirements.

If I can find anything in the Pope files, I will mail you "Zerox" copies at whatever my cost for them is. Copies around Monett usually run about twenty-five cents each. If I can locate the item on my cards only I will advise you my findings there. Obviously, a stamp is always appreciated.

One bit of factual information which may be of interest to owners of Stevens-Pope barrels; it certainly was to me. While later located at Jersey City, N.J. he received a letter from an old customer. This gentleman had just picked up a Stevens-Pope rifle and wanted to know how he could tell if Mr. Pope, personally, made his newly acquired barrel while at Stevens. Mr. Pope's replay simply stated that if the serial number underneath the forearm had the letter "P", ahead or after the Stevens-Pope serial number, then he personally made that barrel, complete. This information was taken from Mr. Pope's Jersey City, N.J. files.

It is my understanding that Mr. Pope, himself, made the statement a number of times that he left Stevens at around Stevens-Pope serial number 1200. In my cards I have listed a Stevens-Pope barrel serial number P1223.

It seems that he must have started the Stevens-Pope barrel serial numbers at 400, probably to keep them distinguished from his own Hartford serial numbers, since the lowest Stevens-Pope serial number I have is 404, and the highest Hartford Serial No. I have is 373 which, as near as I can tell, was made about the early part of 1901. He went with Stevens in May, 1901. I do know that the famous Kelly-Pope-Ballard .38-72 caliber outfit was delivered to Mr. Kelly in April, 1900, and it is Hartford serial No. 318.

The Stevens firm continued their "Stevens-Pope" department until

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probably close to the beginning of World War I, or as long as they continued to manufacture their heavier model single shot target rifles. The highest serial No. I have on my cards is 1956. They did not always use the conventional Pope cut in later years. I have examined a number of "Stevens-Pope" barrels that had right-hand twist and some with only six lands and grooves of the usual Stevens form of cut in the interior. These usually carry a different "Stevens-Pope" serial number from that stamped on the action.

Mr. Pope's announcement that he was setting up to make his famous Pope barrels, and complete line of accessories is in his letter dated May 20, 1908 from 18 Morris Street, Jersey City, N.J. On October 28, 1908 he made and dated barrel No. 100, and on November 16, 1908 barrel serial No. 111. He rather consistently dated all his Jersey City output underneath the forearm. The date of manufacture does not appear on his Hartford, or Stevens-Pope barrels. Since probably he was not fully set-up and ready to go when he sent out his announcement of May 20, 1908, 100 barrels in some five months time is a rather high production rate it seems to me. Therefore, did he start at barrel No. 1, or 100, or what at Jersey City? The lowest Jersey City serial number I have in my files is No. 100.

MISPLACED H.M. POPE ACCESSORIES

The following Hartford, Connecticut, Stevens-Pope, and Jersey City, N.J. Pope barrel and accessory numbers are from my files of several hundred serial numbers from the three locations where he operated during his lifetime. The abbreviation "F/M" means False Muzzle, and any question marks means that I am not sure on that item.

I am only trying to help out and anyone having barrels without the accessories, or accessories without the barrel; whether they are shown here or not, please get in touch with me giving all information possible. Or, anyone fortunate enough to have the complete outfit I would also be glad to hear from you. I can assure you that no one involved will be advised or contacted by me without your written permission.

Hartford, Conn. Pope Barrels

Barrel No.	Missing	Missing
10		Starter
29	F/M	Starter
88	F/M	Starter
103	F/M	Starter
168	F/M	
195	F/M	Starter
258	F/M	Starter
259	F/M	Starter
261	F/M	Starter
291		Starter
359	F/M	Starter

Spare Hartford Accessories

(Lost from original barrels)

F/M No.	Starter No.
53	
112	
125 (or Jersey City)	
160	
184	

Stevens-Pope Barrels

Barrel No.	Missing	Missing
511	F/M	Starter
532	F/M	???
1232		Starter
536	F/M	Starter
583		Starter
712	F/M	
771-P		Starter
1316	F/M	Starter
1619		Starter
1663	F/M	Starter

Spare Stevens-Pope Accessories

(Lost from original barrels)

F/M No.	Starter No.
	1218
1656	1212
	471 (or JC)
	432 (or JC)
	1724

Jersey City Pope Barrels

Barrel No.	Missing	Missing
100		Starter
111	F/M	
220	F/M	Starter
395		Starter
430		Starter
441		Starter
446	F/M	Starter

Jersey City Spares

(Lost from original barrels)

F/M No.	Starter No.
125 (or Hartford)	
	471 (or S-P)
	432 (or S-P)

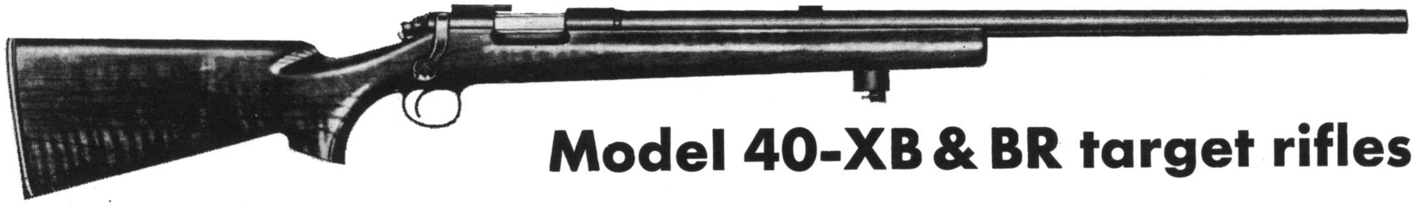
Jersey City No. 411 dated 7-2-1914 has Pope number but no name. Mr. Pope personally examined and told present owner that he made the barrel, .33-47 cal.

Jersey City, No. 367 dated 3-14-1913 had Pope number but no name or date but Pope wrote Mr. Otto Mueller, Jeweler, Wausau, Wisc. when he shipped the rifle to him that he forgot to stamp it but that he would know it was a Pope .33-47 barrel.

Claude E. Roderick

the Remington

ROBERT W. HART & SON
FRANCHISED REMINGTON DISTRIBUTORS



Model 40-XB & BR target rifles

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- ★ **We Stock Most Popular Center-fire Cartridge Chamberings**
- ★ **Write for Details and Prices**

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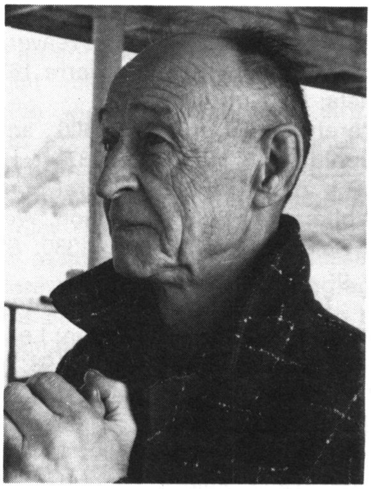
Nescopeck, Pa., 18635 (717) 752-3481

IBS INTERNATIONAL RECORDS———
As of January 1st, 1975

SINGLE GROUPS	EXPERIMENTAL	HEAVY BENCH REST RIFLES	HEAVY VARMINT	LIGHT VARMINT	SPORTER	3 GUN SPORTER & VARMINT AGGREGATE
5-100		.063″ Zeiser 8/30/58	**.0816″** **T.J. Jackson** **5/27/74**	.095″ Beard 7/17/65	.077″ E. Thompson 8/30/73	
5-200		.161″ D. Pickens 7/15/67	.192″ Gillman 6/24/64	.236″ F. James 8/7/69	.259″ L. Hunt 7/5/69	
5-300 Meter		.605″ Gottschall 5/9/65	.787″ Bassett 10/6/68	.887″ D. Hall 5/30/69	.817″ D. Kiel 5/30/69	
5-300 Yard			**.541″** **R. White** **9/1/74**			
10-100		.138″ F. Pindell 8/27/69				
10-200		.298″ Miller 7/20/68				
10-300 Meter		.918″ Rinehart 8/30/57				
10-300 Yard	**.813″** **J. Reynolds** **9/1/74**	**.900″** **A. Cupo** **9/1/74**				
AGGREGATES — MOA						
5-5-100		.1852 Berger 9/24/66	**.2134** **W. Berger** **5/27/74**	.2425 Cornelison 8/19/67	.2306 Deming 8/19/73	
5-5-200		.2290 Engelbrecht 11/4/67	.2505 D. McIlwain 10/10/71	.2772 Suchan 5/13/67	**.3084** **J. Stekl** **7/5/74**	
5-5-300 Meter		.3547 Demoise 5/14/66	.4640 Mick 5/7/67	.5527 T. Seitz 6/22/68	.4898 W. Dunn 5/30/69	
5-5-300 Yard			**.4043** **R. Moorhead** **9/1/74**			
5-10-100		.2278 Cornelison 10/22/66				
5-10-200		.2496 E. Walker 8/11/62				
5-10-300 Meter		.5105 A. Angerman 6/1/69				
5-10-300 Yard						
GRAND AGGREGATES — MOA						
5-5 (100 plus 200)		.2275 Carden 11/4/67	.2491 Suchan 6/26/65	.2810 Suchan 5/13/67	.3102 J. Deming 8/19/73	.3713 S. Wright 7/27/72
5-5 (200 yard plus 300) Meter		.3639 P. Gottschall 5/9/65	.4703 Kiel 10/6/68	.5000 T. Seitz 6/22/68	.5469 W. Dunn 5/30/69	
5-5 (200 plus 300) Yard			**.4383** **R. Moorhead** **8/31-9/1/74**			
5-10 (100 plus 200)		.2563 Roberts 8/11/62				
5-10 (200 Yard plus 300) Meter		.4627 A. Angerman 6/1/69				
5-10 (200 + 300) Yard						

HUNTER SCORES **5-5 (100)**	250-16x Guy Green 9/16/72	1,000 Yd. Benchrest **10 SHOTS 1,000 YD.**	10.062″ R. Guinther 8/27/72

FRANK A HEMPSTED DIES WELL KNOWN GUNSMITH AND BULLET DIE MAKER



Known as Hempy by his friends world wide, Frank Albert Hempsted, 72 died in Sunland, Calif. on Christmas Eve, 1974. He suffered from a protracted illness, but almost to the end was active and helping his friends until a short time before he passed away.

Frank was famous for his first quality .17 caliber dies as well as many other wildcats and participated in the development of well known and successful case forms and bullet shapes.

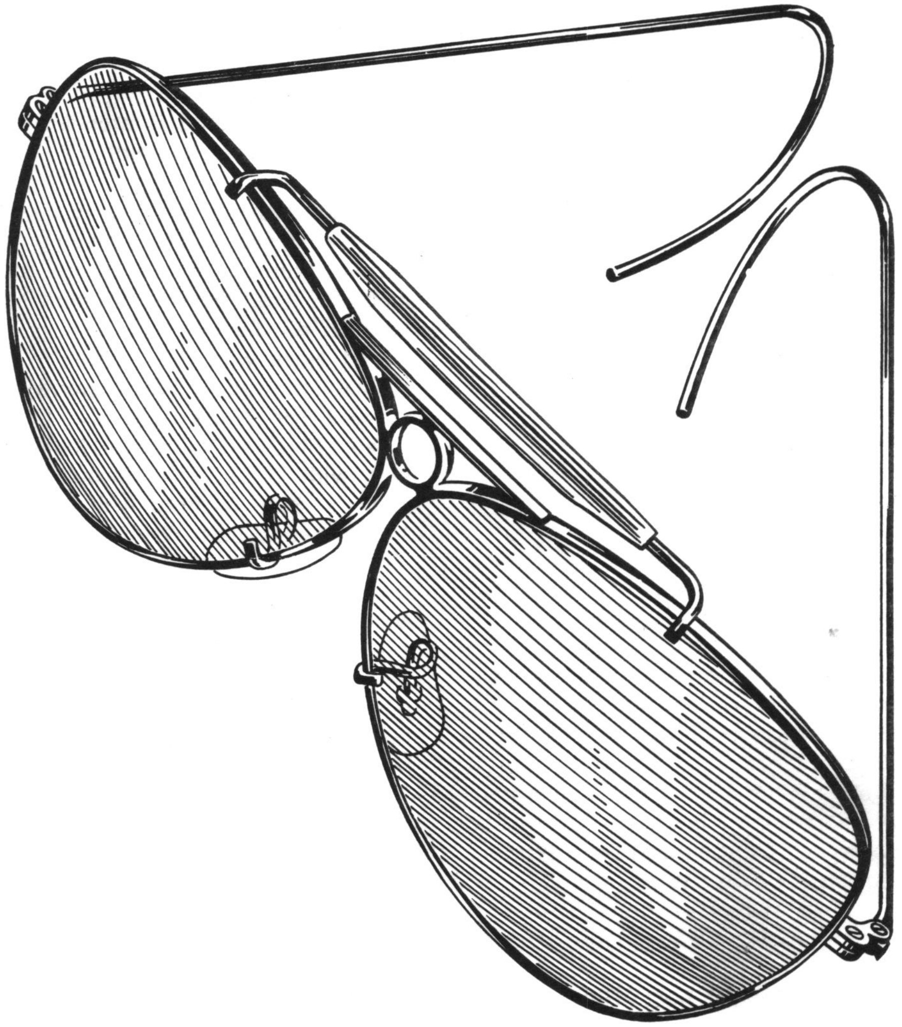
He came from Iowa many years ago, where he is survived by his mother as well as a brother and sister. He resided and had his gunshop in Sunland for twelve years.

Frank will be mourned and missed by hundreds who were so often helped by this wise, kind and gentle man.

FOR SALE:

THERE IS A MARKET ... We have the necessary components for the John Dewey one piece Surlyn coated cleaning rods which includes, uncoated spring steel, some coated spring steel, some handles and various other component parts for finishing of the rods.

Call weekends only,
1-914-266-3421.
Theresa G. Dewey



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TRADING POST

Groups of figures, abbreviations and initials count as words. Hyphenated word counts as two words. Name and address of advertiser is counted. Use full words instead of initials and abbreviations and make your meaning entirely clear.

Classified type ads: no display. **Rates:**—10c per word per insertion, prepaid. Minimum charge $1.00. Closing date for ads is the last Saturday of the month preceding publication.

TRADE: HAND SWAGED CUSTOM .224 51 gr. match bullets made in Simonson dies for equal value of Reloder 7. Perry Morton, Route 1, Box 96, Mentone, Indiana 46539.

* * *

FOR SALE: RELODER 7, 15 pounds as a lot only. $60.00 plus freight FFL needed. Money Order only. G.R. Cooter, Box 10042, Civic Center Station, Richmond, Va. 23240.

* * *

FOR SALE: Sherman Superior Action, serial number 7, laminated stock and .222 stainless barrel. Very good. $500.00 or best offer.

Hunter Class Rifle, 700 Remington, .308 Hart barrel, fired 250 times. Lee Loader and 500 Sierra bullets, $250.00.

Brown Little Wiggler, $25.00. Raymond E. Graham, Jr., 658 Washington St., Meadville, Pa. 16335.

* * *

40XB-BR Bench Rest Rifle, 2 oz. Trigger, .308, Redfield Base and Rings, New Condition, $290.00, R. C. Parry, R.D. 1, Forksville, Pa. 18616.

* * *

TARGETS: 6 frame Varmint or 5 bull practice Hunter on 10 1/2 x 12" tagboard. 25 for $2.00 plus 65 cents postage/handling. NY add sales tax. Ron Whitaker, 89-15 Parsons, Jamaica, N.Y. 11432.

* * *

HEAVY BENCH ACTION — FN SUPREME with 12" sleeve — .222 bolt face — Conjar Set Trigger $125.00. Alfred Handschuh, 33 Hedge Lane, Westbury, N.Y. 11590.

* * *

MICROMETER CONVERSIONS FOR SAECO MEASURES, See Hornbeck June '73.

Conversion only	$30.00
Saeco Measure	29.50
Saeco Stand	6.50
Quick Detachable Unit	12.00
Complete Package	$78.00

F.O.B. Pleasantville, **Seely Masker,** 261 Washington Ave., Pleasantville, N.Y. 10570, Telephone 914-769-2627.

ENGLISHTOWN BENCH REST SHOOTERS ASSN.
Match Results
February 15, 1975
Unregistered Hunter & Heavy Varmint

The evening of February 15 was unseasonably mild, and as a result an outstanding turnout of 14 Hunter class shooters, and 21 Heavy Varmint types were on hand.

Fred Hass won the Hunter, with a 242-4X, followed by Walt Pereira's 240 8X, and Bob White's 236 5X.

Ted Witkowski took the Heavy Varmint with a .3076 followed by Bill Bieber's .3188 — fired with a Rolling Block (!), and John Trela's .3384.

Hunter

Fred Hass	242	4X
Walt Pereira	240	8X
Bob White	236	5X
Geza Nagy	235	2X
John Gustavsen	235	1X
John Trela	234	3X
Tony Hidalgo, Sr.	231	2X
Lee Paulison	231	1X
Tony Hidalgo, Jr.	226	1X
Joe Nagy	225	1X
Jack Hansen	224	4X
Richard V. Steiner	217	
Alex Neschtscheret	206	
John B. Thomas	163	

Heavy Varmint

Ted Witkowski	.3076
Bill Bieber	.3188
John Trela	.3384
Skip Gordon	.3538
Jerry Smith	.3640
Jim Novak	.3722
Bob White	.3792
Johanna Gordon	.3922
Joe Nagy	.3932
Ron Brothers	.3940
Charlie Dzugan	.4024
Eppi Pazienza	.4106
Geza Nagy	.4318
Ron Rosen	.4820
T. Hidalgo, Jr.	.4844
Jack Reynolds	.5054
Bob Sahler	.5206
Pete Horowitz	.5304
T. Hidalgo, Sr.	.5698
Bob Drexler	.5896
Jim Domin	1.5760

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1200 Asbury Dr.
New Haven, Ind. 46774

Hunter Equipment

Hass: .308; Rem action; Weaver 6X; Hart barrel; 41 gr. 4895; Sierra 168 gr. bullets; CCI primers.

Pereira: 6HLS; Rem 600 action; Leupold 3 X 9; Hart barrel; 37 gr. H380; Detsch 70 gr. bullets; Federal primers.

White: .308; Rem 700 action; Weaver 6X; Garrott barrel; 37 gr. H380; Sierra 168 gr. bullets; CCI primers.

Heavy Varmint Equipment

Witkowski: .222; Hart action; Leupold 24X; Hart barrel; 20.5 gr. 4198; Rem bullets; Rem 7 1/2 primers.

Bieber: .222; Rolling Block action; Remington 24X scope; Hart barrel; 26 gr. 748; Rem bullets; Federal primers.

Trela: .222; Rem action; Lyman 20X; Hart barrel; 24 gr. 4895; Sierra bullets; Rem 7 1/2 primers.

SPECIAL GUNSMITHING EPOXY OFFERED BY "UNCLE MIKE'S"

Michaels of Oregon is marketing a specially formulated polyester epoxy this year under the trade name Gun-GluTM. Gun-Glu comes in a single 2cc, resealable tube suitable for many uses around the gunsmith or home. Gun-Glu can be used for "welding on" scope mounts, tightening loose-even worn, screws, installing swivels, etc. Complete instructions along with many specific gun applications are included with each Gun-Glu package.

Manufacturer's suggested retail price is $1.95 — Set No. is 1631. For more information on this and other "Uncle Mike's" products, wirte: Michaels of Oregon, P.O. Box 13010, Portland, OR 97213.

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50 ROUND CAPACITY AMMO BOXES
Precision molded polypropylene. Cover hinge guaranteed 1-million openings. 5 sizes—all calibers.
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SANDHILL RIFLE & PISTOL ASSOC.
Box 166
Great Bend, Kansas 67530
I.B.S. Unregistered Meet

The Sandhill Rifle & Pistol Assoc. held an unregistered hunter and heavy varmint match January 25 in high gusting winds; shifting from straight ahead to 3 o'clock. Keeping on the paper was difficult and 200 yards was not shot because of the weather.

Hunter Rifle was shot for group instead of score, with Richard Russel of St. John, Kansas winning the aggregate with a .889. Small group was also shot by Richard in the hunter class at .755. Richard used a 30.06 rifle, but no data on the gun was available.

Heavy Varmint was won by Ron Radke of Great Bend, Kansas with a hundred yard aggregate .405 in the wind. Small group was also garnered by Ron with a .245. The rifle shot by Radke was a 10 1/2 lb. Sporter, 6 X 47. The rifle is an all Shilen rig with fiberglass thumbhole stock and a 40X action topped with a Lyman/Siebert 30, and a 20" barrel. The load was a full case of 4895 and J.C. 62 grain bullets fired by Remington primers.

Hunter 1st Richard Russel
2nd Sheldon Peacock
3rd Mike Estes
Heavy Varmint
1st Ron Radke .405
2nd Stan Hannigan .768
3rd Jean Radke .902

Equipment used in first three places in Heavy Varmint:

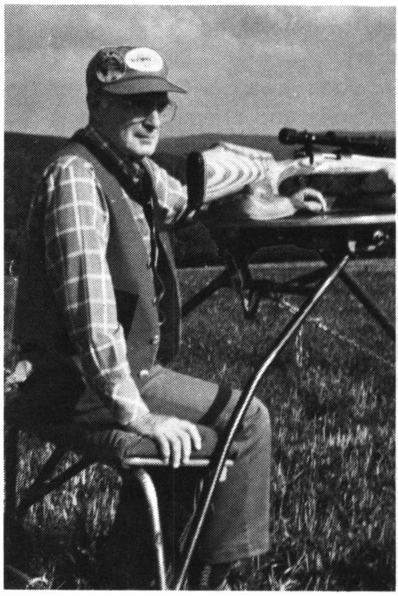
Radke: 40X action, Shilen fiberglass thumbhole stock, Shilen barrel, caliber 6 X 47, scope Lyman Siebert 30 power, weight 10 1/2 lbs. Remington cases full of 4895, Remington primers and J.C. Malsby's 62 grain bullets.

Hannigan: Slvd. XP100 action, Hart barrel, caliber 23-45, Unertl 26 power scope, weight 13 1/2 lbs., Remington cases, 25 gr., H-335 powder, Remington primers, J.C. Malsby's 52 grain bullets.

Jeannie Radke: Slvd. 722, Shilen barrel, caliber .222, scope Lyman Siebert 30 power, weight 13 1/2 lbs., Winchester cases, full of 4895, Remington primers, J.C. Malsby 52 grain bullets.

Hornady Bulletin Board

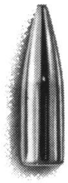
Varmint hunting with confidence



"I have shot one chuck at 332 yds. (by speedometer) with your 60 gr. bullet in my 22-250 Remington Varminter. I'm also very well pleased with the 75 gr. 6mm bullets, as they are sure killers. Very few chucks even move when I hit them with these Hollowpoint bullets. They're very accurate, too. My Remington Varminter 6mm put 3 of these bullets in a 1-hole group at 100 yds.

Clark S. Smith

Clark S. Smith
CALIFORNIA



6mm 75 gr. HP

Mr. Smith's glowing report on the success of his Hornady bullets is impressive. However, if you really want to be impressed, try them yourself. There are 25 devastating Hornady bullets for varminters, all the way from 17 cal. to 8mm. Each bullet is designed to do a specific job, whether you're shooting the latest in varmint rifles or just an ordinary hunting rifle. Hornady varmint bullets have inner-grooved jackets for immediate and violent expansion on impact—precision manufacturing techniques for optimum accuracy—& Secant Ogive Spire Point for greater efficiency.

Take a tip from Clark Smith. Make your next purchase the red and white Hornady box and know the real pleasure of varmint shooting with the utmost confidence.

96 bullets for handloading. Write for information.

FRONTIER CARTRIDGES

You can get Hornady bullets in Factory Ammunition. Ask your dealer for Frontier cartridges.

Hornady Bullets
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BRASS CARTRIDGE CASE CLEANER INSTANTLY STRIPS CORROSION

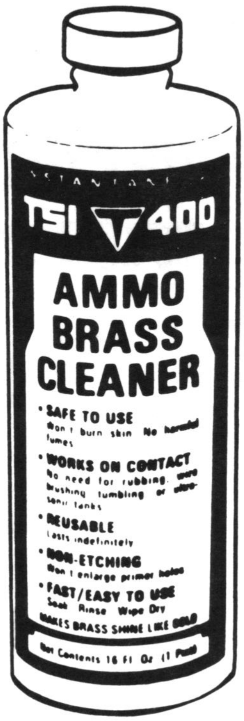
Manufactured by Testing Systems, Inc., Glenside, Pa. is TSI 400 AMMO BRASS CLEANER for the cleaning of brass cartridge cases.

TSI 400 is a new space age formulation that instantly strips corrosion and oxidation inside and outside of cartridge cases. It works on contact and saves hours of tedious hand rubbing, tumbling or wire brushing. It works fast and is easy to use . . . just soak, rinse and wipe dry.

TSI 400 does away with need for dangerous acids and chemicals . . it is safe to use, won't burn skin, is non-etching and biodegradeable.

TSI 400 also works just as effectively on brass antique parts. It retails for $2.98 per 16 oz. plastic bottle and is available at leading sporting goods stores and gun shops nationally.

Quantity prices and additional information are available from Testing Systems, Inc., 2832 Mt. Carmel Avenue, Glenside, Pa. 19038. Editor's Note: Please forward all reader inquiries to Mr. Dave Diperstein at Testing Systems.


TSI 400
AMMO BRASS CLEANER
• SAFE TO USE Won't burn skin No harmful fumes
• WORKS ON CONTACT No need for rubbing, wire brushing, tumbling or ultrasonic tanks
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• NON-ETCHING Won't enlarge primer holes
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MAKES BRASS SHINE LIKE GOLD
Net Contents 16 Fl Oz (1 Pint)

OSWAYO VALLEY ROD & GUN CLUB

On November 3, 1974 the "Millport Saturday Night Shooters" held their first shoot of the 1974-75 winter series. Among the competitors were two ladies, Karin Cook and Nancy Gausman, wives of two Kane shooters. The ladies shot some fine groups.

Results as follows:

Matches

1. Mills	.197
2. Hanes	.260
3. Mills	.286
4. Burdick	.320
5. Mills	.246
6. Gausman	.280

Aggregate

1. Mills	.3132
2. Hanes	.3630
3. Olson	.4006
4. Gausman	.4256
5. Decker	.4298

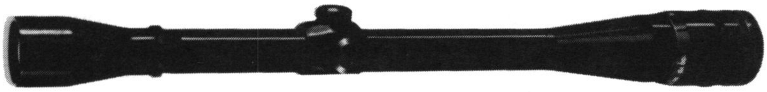
The second match of the series was held on November 17, 1974. Results as follows:

Matches

1. Detsch	.295
2. Detsch	.174
3. Gamble	.306
4. Detsch	.204

Lyman
Target Scopes

FROM THE OLDEST MAKER OF METALLIC AND TELESCOPIC SIGHTS IN THE COUNTRY:



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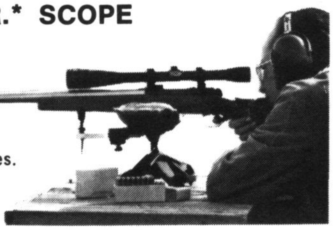
Designed specifically for Bench Rest competition and long-range varmint shooting. A real lightweight, only 15⅛ ounces, 17 inches long. More important, you can lock it rigidly to the receiver of your rifle with standard 1" scope mounting rings. In addition, choose any one of 7 different reticles with either ⅛ or ¼ minute click values. It's a scope built with the pride and commitment to quality that put our famous Super Targetspot in every major match event for over twenty years. Ask your local dealer about all the Lyman scopes, including the new 6X-P with parallax adjustment controls to put you at the top of the Hunter Class Bench Rest Competition.



*Light Weight Bench Rest.

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Lyman

LYMAN PRODUCTS FOR SHOOTERS
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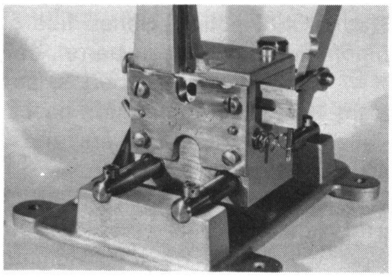
Reloading Products Division of the Leisure Group, Inc.

A PRECISION CARTRIDGE
PRIMING TOOL
WITH "MECHANICAL" PRIMER FEED



A rapid, efficient tool that will automatically insert primers with great accuracy in both rifle and pistol cases.

Each shell holder will handle two sizes of case heads.

Priced at $33.50 (allow postage for 5 lbs. and insurance) which includes shell holder, two priming rods (large and small), magazine tube, loading tube, sorting tray, instructions.

Standard shell holder for .38 Spl. and .30-06. Extra shell holders (two cal.) for $3.30.

This cartridge primming tool allows you to clean and to inspect the all important primer pocket YET SPEND NO MORE TIME AT THE LOADING BENCH.

THE GUN CLINIC
81 Kale St. Mahtomedi, Minn. 55115

5. Decker	.274
6. Decker	.268

Aggregate

1. Detsch	.3052
2. Decker	.3352
3. Maxon	.3694
4. Mills	.3774
5. Aylor	.4284

Clarence Detsch came equipped with a new rifle built on one of his new actions. Looks like it has a good future.

On Sunday, December 8, 1974 the Millport "Saturday Night Shooters" held the third shoot of the 1974-75 series. Amid light winds, no mirage and light rain, some very nice groups were shot. The results are as follows:

Matches

1. Dick Lockwood	.194
2. Dick Lockwood	.291
3. C. Detsch	.240
4. Ed Decker	.232
5. Bob Smith	.223
6. Dick Lockwood	.122

Aggregate

1. Lockwood	.2806
2. C. Detsch	.2906
3. Ed Decker	.3002
4. Olson	.3418
5. Bob Smith	.3574

on January 12 the "Millport Saturday Night Shooters" held their 4th match of the winter series. It was a good day to shoot. Ed Decker's .090 five shot group is a new club record.

Matches

1. Ed Hanes	.182
2. P. Gessel	.352
3. Bob Smith	.276
4. Ed Decker	.276
5. Ed Hanes	.280

Aggregate

1. Ed Decker	.3256
2. C. Gamble	.3686
3. Ed Hanes	.3776
4. H. Olson	.4026
5. B. Mills	.4068

On January 26 the "Millport Saturday Night Shooters" held the 5th shoot of the 1975 winter series. Amid high winds and blowing snow which obscured the targets at times, not very many good groups were shot. Results as follows:

Matches

1. Burdick	.280
2. Gausman	.575
3. Decker	.378
4. Mills	.405
5. Schmidt	.330
6. Gamble	.345

Aggregate

1. Mills	.5118
2. Hoffman	.5644
3. Gamble	.5828
4. Gessel	.5868
5. Lockwood	.6056

On Sunday, February 2 the "Millport Saturday Night Shooters" held their 6th shoot of the season. Amid high winds and blowing snow, not very many good groups were shot. Results as follows:

Matches

1. Hanes	.288
2. Decker	.261
3. Smith	.312
4. Gausman	.341
5. Mayer	.312
6. Decker	.320

Aggregate

1. Hanes	.3912
2. Gable	.3940
3. Gausman	.4096
4. Decker	.4132
5. Smith	.4260

On Sunday, February 16 the "Millport Saturday Night Shooters" held the 7th shoot of the season. It was a very nice day to shoot, slight breezes and a little mirage.

Matches

1. Decker	.170
2. Olson	.314
3. Gessel	.188
4. Browand	.244
5. Decker	.235
6. Decker	.225

Aggregate

1. Decker	.2754
2. Olson	.3356
3. Mills	.3414
4. Gessel	.3608
5. Hanes	.3752

B. Mills, Reporter

CUT-RIFLED BARRELS:
Premium quality rifle barrels available in .30, .338, .35, .375, .416 and .45 calibers from finest Chrome-Moly steel. Also: PRECISION CASE NECK TURNING TOOLS, .17 caliber cleaning rods, rebarreling, conversions. Write for free brochure.

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Prescott, Ariz. 86301

R.W. Hart & Son

Wallace Hart
401 Montgomery St.
Nescopeck, Pa. 18635
Tel. 1-717-752-3481

Quality items **in stock**
for immediate delivery.

New for 1975

- No. 205 Small Rifle primers, new with heavy cup. $8.50 per M.
- Federal Match Cases No. 222MX, .222 Remington, nickel plated. $2.94. per box of 20.
- Federal Match Cases No. 308MX, .308 Winchester, nickel plated, $3.96 per box of 20.

* * * *

- Federal MA 200 Small Rifle primers, retail $11.55 per M.
- Federal MA 210 Large Rifle primers, retail $11.55 per M.

Dealer Inquiries Welcome

INTERNATIONAL BENCHREST SHOOTERS APPLICATION

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Address ....

City ....State....................Zip............

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( ) New ( ) Renewal

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Box 6, Athens, Pa. 18810

For subscription ONLY make checks payable to Precision Shooting.

(Tentative) IBS Registered Match Schedule 1975

Apr. 26-27	Central Kentucky Bench Rest Shooters	BR-HV-LV-SP
May 3-4	Stonewall Rifle & Pistol Club	EX-BR-HV-LV
May 17-18	Mainville Sportsman Club	HV-LV (200-300 Yds.)
May 17-18	Gallatin Gun Club	BR-SP, HV-LV
May 31-June 1	Council Cup Rifle Range	EX-BR-HV-LV
June 7	Englishtown BRSA	HV (100 Yd. — PM)
June 14-15	Pine Tree Rifle Club	HV-LV
July 5-6	South Creek Rod & Gun Club	HV-SP-BR (5 shot) Pa. State Championship
July 12-13	Gallatin Gun Club	BR-SP, HV-LV Tenn. State Championship
July 24-25-26-27	Council Cup Rifle Range	HV-LV-SP International Championship
Aug. 9-10	Mainville Sportsmen Club	EX-BR-HV International Championship EX-BR (100-200 Yd.)
Aug. 30-31	Stittsville Shooting Ranges	(EX-BR Combined) HV-LV International Championship 200-300 Yd.
Sept. 6 9 a.m.	Englishtown BRSA	N.J. State Championship 100 Yd. HV
Sept. 14	Everglades Benchrest Club	Experimental
Sept. 20-21	Pine Tree Rifle Club	HV-LV N.Y. State Championship
Oct. 4-5	South Creek Rod & Gun Club	HV-LV-BR (Five Shots)

IBS Hunter Rifle Registered Match Schedule

Apr. 13	Sulphur Springs Rifle & Revolver Club
Apr. 27	Central Penn Rifle Club
Apr. 27	CBRSA, Bluetrail Range *Connecticut Benchrest Shooters Association
May 4	Sulphur Springs Rifle & Revolver Club
May 11	Mainville Sportsman Club
May 18	Izaak Walton, York, Pa.
May 25	Sulphur Springs Rifle & Revolver Club
June 15	Izaak Walton, York, Pa.
June 22	Central Penn Rifle Club
June 28	Englishtown BRSA (PM)
June 29	Sulphur Springs R & R Club
July 12	Englishtown BRSA (PM)
July 13	Mainville Sportsman Club
July 20	Izaak Walton, York, Pa.
July 26	Englishtown BRSA (PM)
Aug. 2	Englishtown BRSA (PM)
Aug. 3	Camillus Sportsman Club
Aug. 3	Sulphur Springs
Aug. 16	Englishtown BRSA
Aug. 17	Izaak Walton, York, Pa.
Aug. 24	Central Penn Rifle Club
Sept. 6	Englishtown BRSA (5 PM)
Sept. 7	Central Penn Rifle Club
Sept. 13-14	Mainville Sportsman Club — Hunter Rifle International Championship (100 Yds.)
Sept. 21	Izaak Walton, York, Pa. (100 and 200 Yds).
Sept. 27	Englishtown BRSA (PM)
Sept. 28	Mainville Sportsman Club (200 Yds)
Oct. 5	Central Penn Rifle Club
Oct. 12	Mainville Sportsman Club
Oct. 19	Izaak Walton, York, Pa.